

Science Domain	Storyline	NGSS* Topic	Performance Expectations	Time Estimate
Physical Science	<p><u>Investigating Sound and Light</u></p> <p>In this Storyline, students develop an understanding of the connection between sound and vibrating objects, and the role of light in our ability to see. They apply scientific principles related to sound and light to an engineering design challenge aimed at communicating with others at a distance.</p>	Waves: Light and Sound	1-PS4-1 1-PS4-2 1-PS4-3 1-PS4-4	Lesson 1: 8–15 days Lesson 2: 5–9 days Lesson 3: 8–15 days Lesson 4: 6–10 days Lesson 5: 15–20 days TOTAL: 40–70 days
Life Science	<p><u>How Plants and Animals Survive</u></p> <p>In this Storyline, students develop an understanding of the relationship between structure and function by examining how the parts of organisms help them to survive and grow. Using this knowledge, students design an object that solves a problem by mimicking the structure and function of an animal or plant part. Students then identify similarities and differences in parents and offspring, and among individuals of the same species. Finally, students identify patterns of parent and offspring behavior that help the offspring survive.</p>	Structure, Function, and Information Processing	1-LS1-1 1-LS1-2 1-LS3-1	Lesson 1: 7–15 days Lesson 2: 8–15 days Lesson 3: 8–15 days Lesson 4: 7–15 days TOTAL: 30–60 days
Earth and Space Science	<p><u>Earth's Movements and What We See in the Sky</u></p> <p>In this Storyline, students develop an understanding of when the Sun, Moon, and stars are visible and how they appear to move across the sky. They model each of these patterns of movement to explore how Earth rotates, how the Moon orbits Earth, and how Earth and the Moon orbit the Sun. Then students investigate the variation in the length of daytime during different seasons and learn that patterns can be used to predict the length of daytime over the course of a year.</p>	Space Systems: Patterns and Cycles	1-ESS1-1 1-ESS1-2	Lesson 1: 10–15 days Lesson 2: 10–15 days Lesson 3: 5–9 days TOTAL: 25–40 days

NOTE: One "day" represents a typical classroom session of 45–60 minutes.